

DI-M9301 Digital Single Input and Output Module





Description

DI-M9301 Digital Single Input and Output Module provides dry contact output (normally open and/or normally closed) following command from fire alarm control panel, also possible receives switch signal (dry contact) from field equipment and transmits to FACP. The input and output can be programmed to monitor and control the same or different equipment.

Features and Benefits

- Input port monitored with 4.7KΩ EOLR
- Normally open or normally closed contact acceptable
- Input port co-operates with output or works individually
- Electronically addressed. Addresses can be modified in field
- Built-in microprocessor and AD sampling technology
- Rail mount or surface mount

Certificates and Compliance

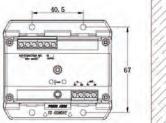
• Standards: UL864 / NFPA [70.72]

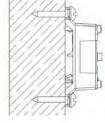
Certifications: UL

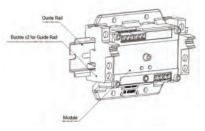
WEEE & RoHS Compliant

Installation

The installation points of the module are shown below, Wall-mount and Rail-mount. DIN-35mm rail is applicable.







Recommended Cabling

(Z1, Z2) IN & OUT: Loop (SLC) connection, In & Out, non-polarized

I, G: Contact input, non-polarized

COM, NO, NC: Dry contact output terminals, Normally-open or Normally-closed

Recommended Cabling: Minimum 17 AWG, Maximum 14AWG twisted pair cable, and subject to local codes.

Gulf Security Technology Co., Ltd.

http://www.gst.com.cn/en/index.asp

Page 1/2

DS10105375-2

IMPORTANT: This publication is a generic version in which product information is shown for informational purposes only and does not constitute a specific commitment or guarantee. We are constantly pursuing the improvement of product technology to improve product performance, for which we reserve the right to adjust the configuration and technical information of the related products without notice. In addition, the description of system performance in this publication applies only to the usual situation. As a result, there may be a variety of unpredictable special circumstances in the real world, so the realization of the relevant product performance will depend on the professional investigation and analysis and the design plan. Please contact us and we will be happy to provide you with professional advice.



Application

The module is electronically programmable. Set the address and input parameter by handheld programmer P-9910B. The input can be N/O (default), N/C or self-confirm.

| Parameter (Function-3) | Input Mode |
|-------------------------|-----------------|
| 1 | Self-confirm |
| 2 | Normally-Closed |
| Other numbers (Default) | Normally-Open |

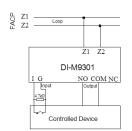
The module address quantity also can be set by handheld programmer. The input and output will take individual addresses when taking continuous 2 addresses. The input port takes the 1st address, and the output port takes the 2nd. The input and output will take the same address under single address mode.

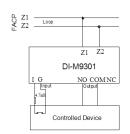
| Parameters (Function-4) | Address QTY |
|-------------------------|-------------|
| 2 | 2 |
| Other numbers (Default) | 1 |

The operation can be done either through the clips-link to the terminals (Z1&Z2), or through the earphone-link to the 3.5mm code-jack.

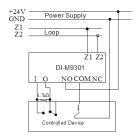
Below figures show the connections of the module. A 1-Watt 4k7 End of Line Resistor is required to the input port

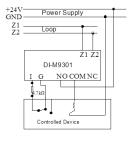
Dry contact output, Normally-open/closed input





Powered output, Normally-open/closed input





Technical Specification

| Operating Voltage | Loop 24VDC (16VDC - 28VDC) Power Limited |
|---------------------------------|---|
| Standby Current | ≤ 0.28mA |
| Action Current | Loop ≤ 0.7mA |
| Output Capacity | 2A @ 30 VDC, 0.35PF Normally-open/Closed |
| Input line impedance | Maximum 25Ω each wire |
| Programming | Electronically addressing |
| Address Range | 1 address, from 1 to 242 2 addresses, from 1 to 241 |
| Indicator | Input LED: Red. It lights in receiving feedbacks, lights 0.5s on, 0.5s off when input faults, and flashes in other states. Output LED: Red. It lights in relay action, turns off in other states. |
| Ingress Protection Rating | IP30 (not tested by UL) |
| Operating Temperature | 0°C ~ +49°C |
| Relative Humidity | ≤ 93%, Non Condensing |
| Material and Color of Enclosure | ABS, white (RAL9016) |
| Dimension (L×W×H) | 85.3mm×78mm×33mm |
| Weight | About 66.5g |

Order Information and Compatible Products

| Part No. | DI-M9301 |
|------------------|---|
| Device Name | Digital Single Input and Output Module |
| Product No. | 10105375 |
| Compatible Panel | GST-M200 Intelligent Fire Panel GST-IFP4M Intelligent Fire Panel |

Accessories and Tools



Part No.: P-9910B

Device name: Handheld Programmer

Product No.: 10104894